

REGISTRATION NUMBER: 29_699
REFERENCE/DOCKET NUMBER: A1355D
TELECOMMUNICATION INFORMATION:
TELEPHONE: 610-454-3816
TELEFAX: 610-454-3808
INFORMATION FOR SEQ ID NO: 84:
SEQUENCE CHARACTERISTICS:
LENGTH: 4654 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-476-515A-84

RESULT 2

US-08-476-515A-84

Sequence 84, Application US/08476515A

Patent No. 6239270

GENERAL INFORMATION:

APPLICANT: Axerstrom, Goran

APPLICANT: Juhlin, Claes

APPLICANT: Rask, Lars

APPLICANT: Crumley, Gregg R.

APPLICANT: Morse, Clarence C.

APPLICANT: Murray, Edward M.

APPLICANT: Haim, Goran

TITLE OF INVENTION: Human Calcium Sensor Protein, Fragments

NUMBER OF SEQUENCES: 84

CORRESPONDENCE ADDRESS:

ADDRESSEE: Martin Savitzky

STREET: Rhone-Poulenc Rorer Inc., 500 Arcola Rd.;
CITY: Collegeville
STATE: PA
COUNTRY: USA
ZIP: 19426-0107

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: Compaq PC

OPERATING SYSTEM: Windows 95

SOFTWARE: Word 7.0 (Patentin)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/476,515A

FILING DATE: 07-JUN-1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

PRIOR APPLICATION NUMBER: US 08/344,836

FILING DATE: 23-NOV-1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: SE 9301764-8

FILING DATE: 24-MAY-1993

ATTORNEY/AGENT INFORMATION:

NAME: Savitzky, Martin

Query Match 2.78; Score 120.5; DB 4; Length 4654;
Best Local Similarity 18.4%; Pred. No. 0_055;
Matches 159; Conservative 119; Mismatches 293; Indels 291; Gaps 43

QY 156 CGHGFIAAGDLGISTIVOSAAFNFIIGICVWVIPDGCBTRKIKHL..... 200

Db 1415 CDGYMLESDRGTCV-TASESLILLYASONKIIADSVTSQWHNIVSYLVEWNSYIWADEF 1473

QY 201 ----RFFITA---AWSIFAYIWLYMILAFSPGGVQVWEGCLLIEFPVQVLLAWA 251

Db 1474 DSISGRIFWSDATOGKWSQNGTDRVV--YEDSII-----LTETIAIDWVG 1520

QY 252 DRLLFKRYMKHYRTD--HRGLIITEGDHPKGJEMGDMMNSFLD---GNLVP 303

Db 1521 -RNLYWDYALETIENSKIDGSHRTVLISKNUITPRLGLALDR-MNEHLLFWSDWGHPR 1578

QY 304 LSGKEVDEBSRREMI-----RIL-----K 321

Db 1579 IERASMDGSMRTVIVQDKIFWPQGLTDYPNRLYFMSYLDYMDFCDYNGHRRQVAT 1638

QY 322 DJOKKHBEKDQLOLVEMANYALSHQOKSRAVYRQATRMMTGAGANLKKHAEQAKKAS 381

Db 1639 DLTRHP-----VATLTFEES-VVWTDATRVRMHN--KWHGQNOQSYWV 1681

QY 382 SMS----EVHDEPEDFISKVFPDPSYQC-----LEM-C 411

Db 1682 NTQWPLGTAVHPSKQFNSVNFCAFSRCSHLCLLSQGPHFTSCVCGWSLSPDNLNL 1741

QY 412 -GAVLTVWPKGGDDMKMTMVYDKE-----GSANAGAYEFTFGTV---VLPGE 459

Db 1742 RDQDFPLITVROHIFGTSLNPNAMVPTAGION-GLOVEDFDDAEQYIWENPGE 1800

QY 460 TQEFSVGIIDDIFEEDEHHFVRLSNVRIEEQPEECMPPAIFNSLPL- PVALASP 517

Db 1801 IHR-----VKTQGNTNRVFEASTSMVGGSMLA-- 1827

QY 518 VATVTLDDDHAGIFTFECDTIHVSSEGVMERLISG--ARGIVVPIPREVEGAK 574

Db 1828 ----LDWISRNLI-----SINPRTQSIESTVLTGDIRYKILAN--DGTAL 1868

QY 575 GGGEDF----EDTYGELEFKNDETVKIRVKVDE-----EY 608

Db 1869 GVGFPPIGTIVDPARGKLXWSDOGTDGSPVAKIASANMDGTSVRLTFTGNLHELECTVLDI 1928

QY 609 ERQENFIATLGEPKWMERGISDVTDKRKLTMEEEBARKTAEMGKP-VLGEHPKLEVIES 667

Db 1929 EFOKLWAVTGRGV-IERGVNGQTDRMIL-----VHOLSHPWGLAVHDOSFLYVDEO 1979

QY 668 YEFKTTDVKLTKTNTLAVGTHSWRQOF-MEATVSAAGBDEDESEGERLPSCLSDYV 725

Db 1980 YEVIERVDKATGANKTVL-----RDNPVPLRLGQVYHRRNAESSION-----CSNNM 2026

QY 726 MHFLTVVKV--LFCV-----PPTECHGWCFAVSLLIGMATAIG--DLAS 771

QY 668 YEFKTTDVKLTKTNTLAVGTHSWRQOF-MEATVSAAGBDEDESEGERLPSCLSDYV 725

Db 2027 NACQQCQLPVPGGLEFSCATGFKLNPDRNRSCKSPYNSF----IVVMSLAIQGFSLBD 2082

QY 772 HFGCTIGL---KDSVTAVVFAGFSVPDFASKAA--ALQDVYAD-ASTIGNVT--- 819

Db 2083 HSETMWPVAGQGRNALHWDVSSGFIWCDFSSVNASDNAIRRKPDGSSLNNTHG 2142

QY 820 GSNANVFLGLGLAWSVAIIW 841
Db 2143 GENGVR--GIAVDWVAGNLYF 2161

RESULT 3

; Sequence 84, Application US/08652877
; Patent No. 6187548
; GENERAL INFORMATION:
; APPLICANT: Akerstrom, Goran
; APPLICANT: Juhlin, Claes
; APPLICANT: Rask, Lars
; APPLICANT: Crumley, Gregg R.
; APPLICANT: Morse, Clarence C.
; APPLICANT: Murray, Edward M.
; APPLICANT: Hjalm, Goran

TITLE OF INVENTION: Human Calcium Sensor Protein, Fragments

NUMBER OF SEQUENCES: 106

CORRESPONDENCE ADDRESS:
; ADDRESSEE: Rhone-Poulenc Rorer Inc.
; STREET: 500 Arcola Rd., 3C43
; CITY: Collegeville
; STATE: PA
; COUNTRY: USA
; ZIP: 19426-0107

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: Macintosh

OPERATING SYSTEM: System 7.5.1

SOFTWARE: Word 6.0 (Patentin)

APPLICATION NUMBER: US/08/652,877

FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/US95/15203

FILING DATE: 22-NOV-1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/344,836

FILING DATE: 23-NOV-1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/487,314

FILING DATE: 07-JUNE-1995

ATTORNEY/AGENT INFORMATION:

NAME: Savitzky, Martin

REGISTRATION NUMBER: 29 699

REFERENCE/DOCKET NUMBER: A1355E-US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 610-454-3816

TELEFAX: 610-454-3808

INFORMATION FOR SEQ ID NO: 84:

SEQUENCE CHARACTERISTICS:

LENGTH: 4655 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-652-877-84

RESULT 4

; Sequence 86, Application US/08652877
; Patent No. 6187548
; GENERAL INFORMATION:
; APPLICANT: Akerstrom, Goran
; APPLICANT: Juhlin, Claes
; APPLICANT: Rask, Lars
; APPLICANT: Crumley, Gregg R.
; APPLICANT: Morse, Clarence C.
; APPLICANT: Murray, Edward M.
; APPLICANT: Hjalm, Goran

TITLE OF INVENTION: Human Calcium Sensor Protein, Fragments

NUMBER OF SEQUENCES: 106

CORRESPONDENCE ADDRESS:
; ADDRESSEE: Rhone-Poulenc Rorer Inc.
; STREET: 500 Arcola Rd., 3C43
; CITY: Collegeville
; STATE: PA
; COUNTRY: USA

QY 1521 -RNLYWTDTYALETTIEVSKIDSHTRTLJSKLNLTNPRLGALDPPR-MNEHLLFWSDWGHHPR 1578
Db 1579 IERASMSMRIVIWQKIFWAGCGITIDYPNHLFMDSYLDMDCDDYNGHHRROVIA 1638
QY 322 DLKOKHPEKKDLDPOLVEMANYYLSHOOKSRAFYRIOTRMMTGAGNIKKHAEQAKKAS 381
Db 1639 DLTRHP-----YALTLFELS-VWWDTRATRRVMRAN--KWHGGNOSVWMY 1681
QY 382 SNS-----EVHTDEPEDIISWFEDCSYQC-----LINC- 411
Db 1682 NTOWPLGIVAVHPSKOINVNPCAFSRSCHLCLSSQGPHEVCVCPGSWLSLSPDILNL 1741
QY 4112 --GAVLITTVRKGDMKSTMVYDKTED----GSANAGADYEFTFGTV---VIKPGE 459
Db 1742 RDQPFITTVRHLICFISLNFSEVKSNDAMVPIAGON-GLVEDFODAQYVWENRGE 1800
QY 460 TOKEFSVGIIDDDIFEEDEHFFVRLSNVRVRIEEQPERGMPPAFLNPL-PRAVLASPC 517
Db 1801 IHR-----VKTUGTNRTVFASISMVGPSPMLA-- 1827
QY 518 VATVILDDHAGIFTFECDTIHVSSEIGVMEVKVLTSG --ARCVIVPRTVGCK 574
Db 1828 -----LWISRNLY-----STNFRTOSIEVLTGHDIRYRKTIAN---DGTAL 1868
QY 575 GGGEDEF---EDTYGELEFKNUDETVKTRVKVDEE-----EY 608
Db 1869 GYGFPIGTTDARGKBYWSOGTDSCVPAKIASANNGTSVKLTENLHECTLDI 1928
QY 609 ERQENFFALGPKWWGRISDVTDRKLTMEEAKRINAENGK-PVGEHRPKLEVIES 667
Db 1929 EEOKLYWAVTGRGV-IEBRNVGDIDRMIL-----VHOLSHPGIAVHDSDFLYTDQ 1979
QY 668 YRKTTVUDKLTKNTLAWVGHSWRQF--MEAITYSAASDEDEDEGEELPSCFDYY 725
Db 1980 YEYTERVDKATGANKTVL-----RDNVPNLRLGQVYHRRNAESSIONG-----CSNN 2026
QY 726 MHFLTVWVK--LFACV-----PPTEYCHGWACFASVSLIIGMTAIG--DLAS 771
Db 2027 NACQQICLPVPGGLESCACATGFKLNDRNCSPYNSF---IVSMLSAIRGFSLESD 2082
QY 772 HPGCTIGI---KDSVTAWFVAFGTISVPDTASKAA--ALQDVVAD-ASTGNVT--- 819
Db 2083 HSETMWPVAGQGRNALHVNDVSSGFWCDFSSESSVASDNAIRRIPDGSSLMNIVTHGI 2142
QY 820 GSNANVFLGLGLAWSVAIIW 841
Db 2143 GENGVR--GIAVDWVAGNLYF 2161

ZIP: 19426-0107
 COMPUTER READABLE FORM:
 COMPUTER TYPE: Floppy disk
 COMPUTER: Macintosh
 OPERATING SYSTEM: System 7.5.1
 SOFTWARE: Word 6.0 (Patentin)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/652,877
 FILING DATE:
 CLASSIFICATION: 435
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: PCT/US95/15203
 FILING DATE: 22-NOV-1995
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 08/344,836
 FILING DATE: 23-NOV-1994
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 08/487,314
 FILING DATE: 07-JUNE-1995
 ATTORNEY/AGENT INFORMATION:
 NAME: Savitzky, Martin
 REGISTRATION NUMBER: 29,699
 REFERENCE/DOCKET NUMBER: A1355E-US
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 610-454-8816
 TELEFAX: 610-454-3808
 INFORMATION FOR SEQ ID NO: 86:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 4655 amino acids
 TOPOLogy: linear
 MOLECULE TYPE: protein
 US-08-652-877-86

Query Match 2.7%; Score 128.5; DB 4; Length 4655;
 Best Local Similarity 18.4%; Pred. No. 0.055;
 Matches 159; Conservative 119; Mismatches 293; Indels 291; Gaps 43;

Qy 156 CGHGFIAIGDGLGPGSTIVGSAFAFMFIITIGCIVYVIPDGTEGRKHL----- 200
 Db 1415 CDPGYMLESGDGRCKV-TASESLILLIVASQNKTIAHSVTSQVNHIYSLVENGSYI 1473

Qy 201 ----RVEFTA---ANSIFAYIWLYMLAVSPGQVQWEGEGLTLEFFPVUULLAWA 251
 Db 1474 DSSGRIFWSDATOGTKWNSAFONGTDRRV--VFDSII-----LTETIAIDAWG 1520

Qy 252 DKRLFYKMKHKYRTDK---HRGILITEGHPKGEDEMGRMNSHLD---GNLVP 303
 Db 1521 -RNYWTDALETTIEVKSKIDGSHRVVLSKLNTPRGLALDPR-MNEHLLFWSDWGHHP 1578

Qy 304 LEGKEDEVDESREMI-----RIL-----K 321
 Db 1579 IERASMDGSMRTVIVQDKFWPCGLTIDYPNRYLFMSYLDIMFCDYNGHRRQVIAS 1638

Qy 322 DLKOKHPERKDOLDEVELVEMANYAASHQOKSRAFRRIQATRMMTCAGNLKKHAAEQAKAS 381
 Db 1639 DLTRHP-----YAVLFEDS-VYNTDRATRRVMAN--KWHGNGNQSVMY 1681

Qy 382 SMS-----EVHDEPERFISKFFDPSSYC-----LEN- 411
 Db 1682 NIQWPLGLGIVAVHRSKQPNVPNCAPAFSRCSHLCLLSSOPPHYSVCVCPGWSLSPDNLNCL 1741

Qy 412 --GAVLTVRKGGDMSKTWYDVKTED----GSANAGADVEFTEGTV---VLKIGE 459
 Db 1742 RDOOPFLITVRQHIFGJSLNPVKSNDAMVPAIGQON-GLDIEFDDAQYIWVENGE 1800

Qy 460 TQKPSVGIGIDDFEEDEHHFFVRLSNVRIEESQPEESMPA,TFNSLU--PRAVLASPRC 517
 Db 1801 IHR-----VKTGDTNRTVFASISNVGPNSNLA-- 1827

Qy 518 VATVILDDDHAGIFTFCDTIIVSSESIGMEVKLRLSG--ARGTVIPPFIVEGTAK 574
 Db 1828 -----LDNISRNY-----STNPRTQS-EVLTLHGDIRYRKTLIAN---DGTAL 1868

Qy 575 GGGEDEP---EDTYGELEDRKNDTEVKTRVKVDEE-----EX 608
 Db 1869 GVGERPIGITYDPANGKLYNSDQGDGVPPAKIASANMOTSVKTLFTGNNLEHLCVTLI 1928
 Qy 609 ERQENFTIALGEPEKWMERGIISDVDRKLJLMEEEAKRATEMKRP-VLGEBHPKLEVITBES 667

Db 1929 EEOQLYIWAUTGRGV-IERGNVDGIDRML-----VHQLSHPWGIAVHDSFLYI 1979

Qy 668 YEFKTTVDLKLKKNLARYVGTHSWRDQE--MEAIVSAAGDDEDESGEERIPSCFVVY 725
 Db 1980 YEVERTVDRDATGANKIVL-----RDNPVNLRQLQVHRRNAESSIONG----CSINN 2026

Qy 726 MHFLTVFWKV-----LFACV-----PPTEYCHOWCAFVSIILIGMTIAIG--DLAS 771
 Db 2027 NACQOICLVLPGGLESCACATGFKNPNSCRSPYNF---IVSMSAIGFSLESD 2082

Qy 772 HFGCTIGL-----KDSVTAVTFVARGTSVYDPTFASKAA--ALODYVAD-ASIGNV---- 819

Db 2083 HSETMVPAQOGRNALHVVDVSSGFITWCDFSSSVASDNAIRIKPDCCSSLMNIVTHGI 2142

Qy 820 GSNAVNEVGLIGLAWSLVANIY 841

Db 2143 GENCVR--GIAVONWVAGNLYF 2161

RESULT 5
 US-08-652-877-88
 ; Sequence 88, Application US/08652877
 ; Patent No. 6187448

; GENERAL INFORMATION:
 ; APPLICANT: Amerstrom, Goran
 ; APPLICANT: Juhlin, Claes
 ; APPLICANT: Rask, Lars
 ; APPLICANT: Crumley, Gregg R.
 ; APPLICANT: Morse, Clarence C.
 ; APPLICANT: Murray, Edward M.
 ; APPLICANT: Hallm, Goran
 ; ADDRESSEE: Rhone-Poulenc Rorer Inc.
 ; STREET: 500 Arcola Rd., 3C43
 ; CITY: Collegeville
 ; STATE: PA
 ; COUNTRY: USA
 ZIP: 19426-0107

COMPUTER READABLE FORM:
 COMPUTER TYPE: Floppy disk
 COMPUTER: Macintosh
 OPERATING SYSTEM: System 7.5.1
 SOFTWARE: Word 6.0 (Patentin)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/652,877
 FILING DATE:
 CLASSIFICATION: 435
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: PCT/US95/15203
 FILING DATE: 22-NOV-1995

ATTORNEY/AGENT INFORMATION:
 NAME: Savitzky, Martin
 REGISTRATION NUMBER: 29,699
 REFERENCE/DOCKET NUMBER: A1355E-US
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 610-454-8816
 TELEFAX: 610-454-3808

QY 1579 IERASMDGSRVTWVQDKITIWWPCGUTIDVNRLYFMDSTLDYMOFCDYNGHHRQVIAAS
 QY 322 DLKQKHPEKBDLQDOLVEMANYALSHOOOKSHAFYRIOATRMTAGNAGTILKKHAEOAKKAS
 QY || :|| || :|| || :|| || :|| || :|| || :|| || :|| || :|| || :|| || :||
 Db 1639 DLIRHP-----YALTIFEDS VIWTDRASTRYMRAN --KWHGGNOSVMM
 QY 382 SMS-----EVHTDDEPDFSKVFEDPCSQC-----LENC
 QY || :|| || :|| || :|| || :|| || :|| || :|| || :|| || :|| || :||
 Db 1682 NIOWPLGIVAVHPSKOPNSVNCAPCSRCSHCLLSSQGPHRYSCVCPGSHSLSPDLINCH
 QY 412 --GAVLFLVVRKGDMSTKIVDVKTED----GSANAGADYETEGTV---VLKPG
 QY 460 TOKEFSGVGTIDDDIFEEDEHFVRLSNVRTEEEOEPEEGMPAIFIENSLPL--PRAVLASPO
 QY 1801 IHR-----VKTDTGTRTVFAISIMVGPSMNL-----
 QY 1742 RDDQPFPLITRQHIFEGISHNPVEKSNDANVPIAGION GLDVEDDAEYCIIWENPGI
 QY 518 VATVTLDDDHAGITFECTIHVSISIGMEVKLRTSG--ARGTVIVPPRTVEGTA
 Db 1828 -----LDWISRNLY-----STNPRTQSIEVLTGHDIRYRKTIAN---DGTAL
 QY 575 GGGEDF---EDTYGELEFINDETVKTRKVIVDE-----
 Db 1869 GVGPIGIDTPARSKLYWSDQGTDGSGVPAKIASANMDGSVKTIFTGNIEHLCYVTLDD
 QY 609 ERQENFFIAIGEKPKNMERSGDVTDRLKLTNEEAKRIAMGKP--VLGEHPKLEYTIES
 QY 1929 BEQKLYWAVTGGRV-TERGIVNDGTDML-----VHOLSHPGWIAVHSFLYVTDEC
 QY 668 YEFKPTVDKLKTTNLALVGTHSWRDQF--MEATVSAAGDEDESEGERLPSCFDYV
 QY 1980 YEIVTERVUDKATGANKIVL-----RDNVNLRGLGLOWYHRNAAESNG----CSNNN
 Db 726 MHFLTVFWK/-LEACV-----PPTECHGHRACFAVSILGMATATG--DLASQ
 Db 2027 NACQQICLIPPGGLESCACTGFKLNUPDNRSCSPYNSF---IVSMSLSAIRGFSLELSI
 QY 772 HFGCIGL-----KDSVTAVFVAFCGTSVPDFASKA--ALQDVYAD-A-SIGNVY-
 Db 2083 HSETAVPVAGQGRNALHVDDVSSGFIYWCDFSSVASDNIAIRRIPDGDSLMLNIVTHGJ
 QY 820 GSNAVNVLGIGLANSVAATIW 841
 Db 2143 GENYR--GIAVDRWAGNLYF 2161

RESULT 7

US-08-973-462-8
 Sequence 8, Application US/08973462B
 GENERAL INFORMATION:
 APPLICANT: DRUILLE, PIERRE
 APPLICANT: DAUBESIES, PIERRE
 TITLE OF INVENTION: MALARIAL PRE-ERYTHROCYTIC STAGE POLYPEPTIDE MOT
 FILE REFERENCE: 0660-0125-0 PCT
 CURRENT APPLICATION NUMBER: US/08/973,462B
 CURRENT FILING DATE: 1998-02-06
 EARLIER APPLICATION NUMBER: PCT/FR96/00894
 EARLIER FILING DATE: 1995-06-12
 EARLIER APPLICATION NUMBER: FR 95/07007
 EARLIER FILING DATE: 1995-06-13
 NUMBER OF SEQ ID NOS: 29
 SOFTWARE: Patentin ver. 2.0
 SEQ ID NO 8
 LENGTH: 1766
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial sequence:Polypeptide
 US-08-973-462-8

RESULT 11
 US-09-134-001C-3159
 Sequence 3159, Application US/09134001C
 ; Patent No. 63880370

; GENERAL INFORMATION:
 ; APPLICANT: Lynn Doucette-Stamm et al
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
 ; FILE REFERENCE: GTC-007
 ; CURRENT APPLICATION NUMBER: US/09/134,001C
 ; CURRENT FILING DATE: 1998-08-13
 ; PRIOR APPLICATION NUMBER: US 60/064, 964
 ; PRIOR FILING DATE: 1997-11-08
 ; PRIOR APPLICATION NUMBER: US 60/055, 779
 ; NUMBER OF SEQ ID NOS: 5674
 ; SEQ ID NO: 3159
 ; LENGTH: 10182
 ; TYPE: PRT
 ; ORGANISM: Staphylococcus epidermidis
 ; US-09-134-001C-3159

Query Match 2, 3%; Score 111; DB 4; Length 10182;
 Best Local Similarity 21.2%; Pred. No. 12; Matches 97; Conservative 70; Mismatches 168; Indels 122; Gaps 22;

Matches 97; Conservative 70; Mismatches 168; Indels 122; Gaps 22;

Query 310 DESRERMIRILKDKQ---KHPKD-----LPOLVEMANYA---LSHOOK 349
 Db 9479 DATSNDLVNAQAKDEGOSATEHIIADELPRAKLDAQMDQVREDFINHLTSQNPNLSEEK 9538
 Query 350 SRAFYRIQATRMGAGN---IUKKHAEQAKRASSMSEVHIDEPEDFISKYFFDCSY 405
 Db 9539 NKLTSOI--NKLVLNGIKNEOQAQNKOQJENAA--TTKDEVIENTKKLITAKAE---AK 9590

Query 406 OCLENQGAVILTVRKGGMKTMVYKVEDSANAGADEYFEGTVVLPKGENTOKERS 465
 Db 9591 QMKELQSQQRKDAINNNTL---TPSKRHALADIDKTE---KDALQHIENS 9636

Query 466 VGIIDDIFEEDEFEVRSNRVTREEQPEEGMPAIFN--SFLPLRAYLASCPCVA--- 519
 Db 9637 NSTI--DDINNNKEAHFNTLAHTIWDTDOQ---PLVFEVPELSLQLQNALVTSEVVHRDE 9690

Query 520 -----TVTILDDDHAGIFTFECDTIHVSSEIGVMVEVKVLTSGARGTVVVFREVE 570
 Db 9691 TISLESIKKMTLUDELKNVSLP--NTDKVADHL-TAKVYVTLADGSVTVWVVKVE 9748

Query 571 GTAKGGGEDFEDTYGELEFRNDERTVKTI---RVKTD----EVEYEQ 611
 Db 9749 -----TVTILDDDHAGIFTFECDTIHVSSEIGVMVEVKVLTSGARGTVVVFREVE 570
 Db 9691 TISLESIKKMTLUDELKNVSLP--NTDKVADHL-TAKVYVTLADGSVTVWVVKVE 9748

Query 612 ENFFALGEPKWMRGSISVTDRLTMEEE--EAKR--IAEMSKPVLEGH 657
 Db 9795 KKQAI--DKVNHSKSXKDIETVKRTDFFEEIDOPDPKRETLNKAKKDDITDVNTOIQNGF 9851

RESULT 12
 US-09-708-426-8
 Sequence 8, Application US/09708426
 ; Patent No. 644429
 ; GENERAL INFORMATION:
 ; APPLICANT: HAN, YE-SUN
 ; APPLICANT: YU, YEON-GYU
 ; APPLICANT: LIM, JAE-HWAN
 ; TITLE OF INVENTION: GENE CODING FOR DNA LIGASE OF HYPERTHERMOPHILIC BACTERIA AQUI
 ; FILE REFERENCE: 1995-9US0
 ; CURRENT APPLICATION NUMBER: US/09/708, 426
 ; CURRENT FILING DATE: 2000-11-09
 ; PRIOR APPLICATION NUMBER: KR99-49591
 ; PRIOR FILING DATE: 1999-11-10
 ; NUMBER OF SEQ ID NOS: 12
 ; SOFTWARE: Patentin version 3.0
 ; SEQ ID NO: 8
 ; LENGTH: 720
 ; TYPE: PRT
 ; ORGANISM: Aquifex aeolicus

Query Match 2, 3%; Score 110.5; DB 4; Length 720;
 Best Local Similarity 19.3%; Pred. No. 0.13; Matches 127; Conservative 84; Mismatches 207; Indels 241; Gaps 34;

Matches 127; Conservative 84; Mismatches 207; Indels 241; Gaps 34;

Query 303 PLEKREVDRSRMIRILKDKQ---KHPKDLDOLVEMANYAVALSHQSKSRAFYRQAT 359
 Db 4 PERSEKELQKTRKTRELRKDKVVKSFEEKKLAEDLREVRY---HDWK---YYEAN 55
 Query 360 -----RMMTGAGNIKKHAEQAKRASSMSEVHIDEPEDFISKYFFDCSYQCLEN 410
 Db 56 PVIPDYDYBRLFRALKIEKKY--PELITPDSPTORVASBISGERPTVKHYTP--MLSIN 112

Query 411 CGA--VLLTVRKGGDMSTMIVYKTED-----GSANAGADY--EF 448
 Db 113 AVSDELREFDRYRQITQLEGVEYAVEVKLDGAGIALVYENDLFVRCATRGDGEYEDI 172

Query 449 TEGTVVLUKGETQMBFSVGSIDDDIFEEDEHHFVRLSNR-----TEEQOPE 496
 Db 173 TNNLTKTIKIPLKAFS-----RGKLAERGEVWIRKDFQKLINKERME 219

Query 497 GMPPAIFNSLPLPRAVLASP---CVATVWILDDDHAGIFTFFCDTIHVS----- 542
 Db 220 GLPP-----FANPRNAAGSIQKDPKEVAKRNLEAVYHLSYVERPPEPEPT 267

Query 543 --ESGVVMEVKVLTSGARGTVVVFRTVEGTAKGGGFEDFTYGELEFFKNDTVEKTRV 600
 Db 268 HYESL---KMLHTLG-----FKTL-----FKDTKVKGIDE 295

Query 601 KIVDEEYVRQENITFALGEPKWNERRGSDVTDRLTMEEEAKRIAEMKGVLG---EH 657
 Db 295 VIECKEWKMRDSY-----PYEDGMVVKVNRLL-----KVLGYVSHH 336

Query 658 PKLEVIESYEKFKTVDK---LIKTNALVNGTHS 691
 Db 9852 KEIERIKGITSNEKTOFDQKLTALQKEELEKEVHAN 9888

Query 695 FM-----EATVSAAGDE-----DEDESGEER-----LFSCFDYVMHELTWF 732
 Db 393 FIREDIRGDWWVVERADGIVPVWEVKEKRTGEPEPKYCSCGSELVK---- 448

Query 733 WKVLFACVPTYE--CHWCFAVSTLIGMLTAIGDLSHFGCTI-GLKDSVTAVWF 788
 Db 449 -----PEEAIRCINISCPCQSVL-----RKKWASDAMDITRGLGDATIKLFF 492

RESULT 13
US-08-726-214-6
Sequence 6, Application US/08726214
Patent No. 6107075
GENERAL INFORMATION:
APPLICANT: Tang, Wei-Jen
APPLICANT: Gilman, Alfred G.
TITLE OF INVENTION: AND USES THEREFOR
NUMBER OF SEQUENCES: 31
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
country: United States of America
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/726,214
FILING DATE: Concurrently Herewith
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/005,498
FILING DATE: 04-OCT-1995
ATTORNEY/AGENT INFORMATION:
NAME: Highlander, Steven L.
REGISTRATION NUMBER: 37,642
REFERENCE/DOCKET NUMBER: UTSD:450
TELECOMMUNICATION INFORMATION:
TELEPHONE: (512) 418-8000
TELEFAX: (512) 414-7577
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 1144 amino acids
TYPE: amino acid
STRANDENESS:
TOPOLOGY: Linear
DS-08-726-214-6

Query Match 2.3%; Score 109.5; DB 3; Length 1144;
Best Local Similarity 17.9%; Pred. No. 0.36; Mismatches 261; Indels 235; Gaps
Matches 133; Conservative 112; Mismatches 261; Indels 235; Gaps

Oy	131	ETVSNL-----TMAIGSSAPEILISLIEVGHOFIAGDGLGPSTIVGSAAFNM	179
Db	60	ESLENLYQTVFKRQRHETLVLVVAFALEDFCYVVMCAVVFSSDKLAPLAVAGVGLVDI	119
Oy	180	IIIGCVY-VIPDGTRK-TKHLRVFFITAWSASIYIW-----YMI	221
Db	120	ILFVICKKGGLPDRYRSRKVPPYLWILITA--QISYSLGUNFSRAHASDVGWQAFFV	177
Oy	222	AVF-----SPGVV-----QWEGLTTLFFFVCV	246
Db	178	SFTITPLSLSPIVVISVSCVWHLVLGTVQAQQODELEGMQLIREILANVFLYCAT	237
Oy	247	LA-----WVADKRULFYKYHHKYYRDKHKGILLIEFEGDPKGIEMDGKMNHSFLDGN	301
Db	238	IVGIMSYYMDR-----KHKRFLEARQSLEVNMILEQSQOQNLMSTI	282
Oy	302	VPLEGKEVDESRREMRTRILKDLQKHKEPEKDOLVEMANYALSHQSKAFYRQATRM	361
Db	283	LP---KHWAD-----EMLKDMKKBQSQOOQFNW--YMRHENVSLFADIVGFTQ	330

QY 362 MITGAGN-.....ILKHHAAEQAKASSMSMEHTDEPDFSKVFPDCPSKCLENGAA- 413
 ::
 Db 331 LSSACSAQELVKLNLNEFARFDKLAQKYHQSLRI-----KILGD-CYVCI-CGLPD 378
 QY 414 -----VILTVVYRKGDMSKTMVYDVKYEDGSANAGADYEFTEGTVVLPKGTHOKERSVG 468
 ::
 Db 379 YREDHAVCSTLMLAMFEALISVREKKTG-----VDMVRGHTGTWLG 424
 QY 469 IDDDIFEEDEHFVRLSNVR1TEEQPREGMPAIFNLSPLPRAVLASPCVATVILD-- 525
 ::
 Db 425 LGOKRWOYD---VNSSTDVTVANKMGRGGJPGPRVHIS-----QSTMDCLURGE 468
 QY 526 DDHAGIFTFECOTIHVESESIGN-----MEVKVLTSGART-----V 562
 ::
 Db 469 DVERPGDGSCRDYL--DEKGCIETYLIIASKEPVKKTAQNGLINGSALPNAGAPKSSPA 525
 QY 563 IVPPFRIVTVEGATRGKGGDFEDPYGELEFLERKNDEHVTKTRVKVDEEYEREROFFIAJGEPK 622
 ::
 Db 526 LIETKEPONGSAMASGSTSE-----EEQRAQDN-----PSPNPNR 562
 QY 623 WMERGTSIDVTDRLKLTMEEEEAKRIAEMGKPVGEHRKLEVIEESVEFKTVVDKLKTTN 682
 ::
 Db 563 RRLR-LQDLABRVWASED-----EHENLQNLNEALLERESA---QVVKRN 605
 QY 683 LALVGTHSWRDQFMETAITVSAGDEDDEDESGEERJPSCDFYVMHRLTVWVNLVLFACCVPP 742
 ::
 Db 606 TFLLT-----MRFMOPEMETTRYSVEREKOSGAFCSC---WVLFCTAMVEILIDPWLM 656
 QY 743 TEYCHGWACFAVSIILIGMT 763
 ::
 Db 657 TNV----VTFVVGVEVLLLT 673

US-08-050-684-2

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/582, 719
FILING DATE: 04-JAN-1996
CLASSIFICATION: 530

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/050, 684
FILING DATE: 15-APR-1993

ATTORNEY/AGENT INFORMATION:
NAME: Lowrey, Dr., Karen A
REGISTRATION NUMBER: 31, 274
REFERENCE/DOCKET NUMBER: 31937-00

TELECOMMUNICATION INFORMATION:
TELEPHONE: 203-321-2361
TELEFAX: 203-321-2971
TELEX: 710-474-4059

INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 652 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein

US-08-582-719-2

Query Match	Score 2,3%	DB 1; Length 652;
Best Local Similarity	19,9%	Pred. No. 0,17; Mismatches 210; Indels 201; Gaps 30;
Matches	124;	Conservative 89; Mismatches 210; Indels 201; Gaps 30;
QY	77	VIVYFVALYLMF-LGVISITADREMASI-EVITSQER------EVTIKKPNGET- 121
:: : - : : : : : : : : : : : : : : : : :		
Db	11	ILGFITIAFFLAFSFGVANDVNGTAVGSGVUTLROACTIASIFETTGSVLLGAKVGETI 70
QY	122	-STTIRWNNNTSNTLMA----LGSSAPELLSIE-VCG-HSFLAGDPSI 170
: : : : : : : : : : : : : : : : : : :		
Db	71	RKGIDVNHYNEVE-TIMAGEVSAMVGSAWMQLIASFLRLPISGTHTCIVGSTIGFSI 128
QY	171	V-----GSAAFMNITIIGCVVYIPDGERTRKIKHLRVEF- 204
: : : : : : : : : : : : : : : : : :		
Db	129	AIGTRGVQWMEMLVKIVASWIFISPLISFGMSGLLFVLRITFLKEDPVNGLRALPVFIA 188
QY	205	ITAANSIERYIW---LYMILAVFSPGVQVWBGGLTLEFFPVCV----- 245
: : : : : : : : : : : : : : : : : :		
Db	189	ATTAINFVNSIMYTGAVPIGLVLPWMAIALSFGVALLFAEFVWLFVCPIWMRKITGKLOK 248
QY	246	--LILAWALKRL-----LFRYKMHMKYRDKH--RGIILET-----EGDHPK 283
: : : : : : : : : : : : : : : : : :		
Db	249	EGALSRVSDESLSKVQEAESPVPFKELPGAKANDSTIPTGAAGETLGISEGTSGASHPR 308
QY	284	GI-----ENDGKMMNSHF-----LDGNVUPLGKEVDESRRI-MIRIKDLKOK 326
: : : : : : : : : : : : : : : : : :		
Db	309	AAYGRALSMTHGSVSKPISNGTEFGDGHTRSVDGHVYHTVHDGS-----LYKDLHK 360
QY	327	-HPEKDLDOLVEMANYAALSHQQKSRAFRRIQATRMMIGAGNIKKHAEQAKKASSME 385
: : : : : : : : : : : : : : : : : :		
Db	361	IHTDRGPERKPQAQESNRYLRRNNSYTCY---TAAICG---LPVHATRAASSA--- 409
QY	386	VHTDEPEDITISKYFDPGSCYQCLENCAGVALLTVRKGGDSKTMVWDYKTEDGSANAGAD 445
: : : : : : : : : : : : : : : : : :		
Db	410	---PED-SEKLVGDFTSYS-----KKRIRDYSSSYCHVAEEA 444
QY	446	YETFEGTVLKPGETQKERSVGIIDDIFIDEDEHFFVRILSNVRTEEQBEGMPA--IF 503
: : : : : : : : : : : : : : : : : :		
Db	445	IEAEEGGEMK-----LASELADPDPREDP-----AEEEKSEKDAPEVHLLF 487
QY	504	NSLPLPRAVLAS-----PCVAVTILDDDHAGIFTFCDT-----IAV 541
: : : : : : : : : : : : : : : : : :		
Db	488	HFLOVLTACFGSFAGHGNQDSNAIGPLVWLLWLIQKQ---GGVTOBAATPVWLLPYGGVSI 544
QY	542	SESTGYMEVKYLRTSGARTGVIP 565
: : : : : : : : : : : : : : : : :		
Db	545	CTGLWWGGRVVIQTMGKDLPITP 568

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